

METHOD AND SYSTEM FOR EDDY CURRENT  
PROXIMITY SYSTEM NOISE REDUCTION

ABSTRACT OF THE DISCLOSURE

A method of determining a gap between an eddy current proximity transducer and a target is provided. The method includes providing a data structure that is populated with data that is relative to a gap value corresponding to a complex impedance value of the transducer, exciting the transducer at a plurality of different frequencies, determining a complex impedance value of the transducer at a respective one of the plurality of frequencies, and determining the gap using the data structure and the complex impedance value.